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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,208	11/09/2001	Dale Lee Yones	DN1999118USA	4506	
7590 08/11/2006			EXAMINER		
Howard M Cohn			NGUYEN, TU X		
Ronald Yaist Do	ept 823				
The Goodyear Tire & Rubber Company			ART UNIT	PAPER NUMBER	
1144 East Market Street			2618		
Akron, OH 44309-3531			DATE MAILED: 08/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Comments		Applicati n No. Applicant(s)					
		10/018,208	YONES, DALE LEE				
	Offic Action Summary	Examiner	Art Unit				
		Tu X. Nguyen	2618				
P ri d f	- The MAILING DATE of this communication approximation reply	pears on the c ver sheet with the	orrespondenc addres	SS			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communic (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 09 N	lovember 2001.					
		action is non-final.					
3)	,_						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disp siti	on of Claims						
4)🖂	Claim(s) 22-42 is/are pending in the applicatio	n.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) <u>27-32</u> is/are allowed.						
6)□	Claim(s) is/are rejected.						
7)🛛	Claim(s) <u>25 and 37-42</u> is/are objected to.						
8)[Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)	The specification is objected to by the Examine	ır					
	The drawing(s) filed on is/are: a) ☐ acc		Examiner				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct			.121(d).			
11)[The oath or declaration is objected to by the Ex						
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:		-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority document						
	3. Copies of the certified copies of the prior		d in this National Stag	je			
* \$	application from the International Bureau		ـ				
3	ee the attached detailed Office action for a list	or the certified copies not receive	0 .				
Attachment	• •	🗖					
1) 🖂 Notice 2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 因 Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa	atent Application (PTO-152))			
Paper	No(s)/Mail Date <u>11/09/01</u> .	6) Other:	· · · · · · · · · · · · · · · · · · ·				

Application/Control Number: 10/018,208

Art Unit: 2618

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 22-24, 26 and 33-36, are rejected under 35 U.S.C. 102(b) as being anticipated by Katzenstein (US Patent 5,245,332).

Regarding claim 22, Katzenstein discloses an RF transponder comprising an antenna system characterized by:

a programmable load (see abstract) connected to the antenna system for transmission modulation (see col.12 lines 1-2).

Regarding claim 23, Katzenstein discloses a plurality of first output stage transistors (see 72, 76, 78 fig.4) connected to a first terminal (see 81, fig.4) of the antenna system;

a corresponding plurality of second output stage transistors (see 72, 76, 78, fig.4) connected to a second terminal (see 83, fig.4) of the antenna system; and

control logic for determining which ones of the first output stage transistors and which ones of the second output stage transistors are used to modulate the antenna system (see col.8 lines 45-59).

Regarding claim 24, Katzenstein discloses an EEPROM storing programmed settings for driving the control logic (see col.13 lines 15-16).

Regarding claim 26, Katzenstein discloses a gate for disconnecting modulation of the antenna system in response to a reset signal (see col.10 lines 64).

Regarding claim 33, Katzenstein discloses an RF transponder comprising:

an antenna system (see 22, fig.4); and

circuitry for applying modulation to an RF signal received by the antenna system characterized by:

a modulation load connected to the antenna system (see col.12 lines 1-2);

a control logic for controlling the modulation load (see 84, fig.4);

a first gate providing a control signal to the control logic, wherein the first gate logically combines a system clock signal and data stream (see col.8 lines 21-31);

a sync delay circuit for delaying the system clock signal in order to synchronize the system clock signal with the data stream (see col.8 lines 1-20).

Regarding claim 34, Katzenstein discloses a second gate interposed between the first gate and the control logic for disconnecting modulation of the antenna system in response to a reset signal (see col.10 lines 64).

Regarding claim 35, Katzenstein discloses a method for controlling RF signal modulation in a passive transponder (see col.11 lines 55-56) which comprises an antenna system (see 22, fig.4), circuitry for applying modulation (see col.12 lines 1-2) to an RF signal received by the antenna system, and circuitry for deriving transponder power from the received RF signal, characterized by:

providing a modulation load connected to the antenna system and modulated under control of a control signal formed by logically combing a system clock signal and a data stream (see col.8 lines 1-45); and

delaying the system clock signal in order to synchronize the system clock signal with the data stream (see col.8 lines 1-45).

Regarding claim 36, Katzenstein discloses forming a phase-shift key type of control signal, for producing phase-shift keyed modulation of the RF signal received by the antenna system (see col.8 lines 1-20).

Allowable Subject Matter

- 3. Claims 27-32 are allowed.
- 4. Claims 25 and 37-42, objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 27 and 25, the prior arts fail to teach "a power supply and level shifters connected to the load, wherein voltage changes of the power supply dynamically vary the magnitude of the load according to power available in the transponder", as cited in the claim.

Regarding dependent claim 37, the prior arts fail to teach "the phase-shift control signal uses a system clock signal having half the frequency of the RF signal received by the antenna system; and the data stream is a signal clocked at a fraction of the frequency of the RF signal received by the antenna system", as cited in the claim.

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Regarding dependent claim 39, the prior arts fail to teach "optimizing RF signal modulation performance by utilizing a modulation index having a magnitude which is adjusted according to programmed trim settings stored in the transponder", as cited in the claim.

Regarding dependent claim 41, the prior arts fail to teach " a modulation index having a magnitude which is adjusted dynamically in proportion to a power of the RF signal received by the antenna system", as cited in the claim.

Regarding dependent claim 42, the prior arts fail to teach "preventing RF signal modulation if the power derived from the RF signal received by the antenna system is too low to provide transponder power adequate for stable transponder operation including RF signal modulation", as cited in the claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 6:30AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)/at 866-217-9197 (toll-free).

July 24, 2006

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